

SPOKANE RIVER BASIN

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12433200 CHAMOKANE CREEK BELOW FALLS, NEAR LONG LAKE, WA

LOCATION.--Lat 47°51'42", long 117°51'28", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.2, T.27 N., R.39 E., Stevens County, Hydrologic Unit 17010307, Spokane Indian Reservation, on right bank 800 ft downstream from Chamokane Falls, 1.4 mi upstream from mouth, 1.8 mi north of town of Long Lake, and at mile 1.6.

DRAINAGE AREA.--179 mi².

PERIOD OF RECORD.--February 1971 to September 1978, April 1984 to September 1987 (seasonal records), October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,420 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No known regulation. Diversions upstream for irrigation, domestic use, and fish hatchery. Pumpage from ground-water wells can cause small fluctuations in discharge. Water temperature records April 1984 to September 1987 (seasonal records); October 1987 to September 1989.

AVERAGE DISCHARGE.--21 years (water years 1972-78, 1988-2001), 63.9 ft³/s, 4.85 in/yr, 46,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,200 ft³/s Apr. 25, 1975, gage height, 5.06 ft, from rating curve extended above 500 ft³/s on basis of slope-area measurement of peak flow; maximum gage height, 5.37 ft Mar. 20, 1997; minimum discharge, 9.4 ft³/s Dec. 30, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 90 ft³/s Mar. 20, gage height, 1.73 ft; minimum discharge, 19 ft³/s Aug. 13, 20, 31 and Sept. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	38	37	33	32	33	47	47	32	28	25	22
2	38	38	37	32	33	36	46	46	32	28	25	23
3	37	38	37	33	33	35	48	45	34	29	25	23
4	38	40	37	33	33	34	48	43	34	29	25	23
5	38	39	36	33	33	35	47	42	33	28	25	21
6	38	38	35	33	33	36	50	41	33	28	25	20
7	38	38	35	33	e32	37	55	40	32	28	24	20
8	38	40	35	33	e31	38	55	39	32	27	22	20
9	38	41	35	33	e33	40	52	38	31	25	21	20
10	38	39	35	33	e34	41	50	37	31	25	21	21
11	38	39	34	33	e33	42	51	37	31	26	22	21
12	38	38	e30	33	e32	43	50	36	32	25	22	21
13	38	38	e31	33	e32	45	49	35	31	24	22	21
14	38	38	e33	33	e32	48	47	38	30	24	21	21
15	38	37	e33	33	32	52	47	39	30	24	23	21
16	38	35	e32	e31	32	54	45	42	30	24	24	21
17	38	35	e34	e32	32	48	44	41	30	25	24	21
18	38	35	e32	33	32	49	45	39	30	24	21	22
19	38	35	e33	33	32	58	47	38	30	24	22	22
20	42	36	e33	33	32	80	48	36	29	24	21	22
21	40	37	e33	33	32	63	46	35	29	24	20	22
22	38	37	e33	33	32	54	44	35	29	26	21	22
23	38	37	34	33	33	51	44	34	29	26	23	22
24	38	37	34	33	34	49	43	33	29	26	22	22
25	38	36	34	33	34	51	43	32	29	25	22	22
26	38	37	34	33	33	66	44	32	28	25	22	24
27	38	38	33	33	33	64	43	32	29	25	22	24
28	39	37	32	33	33	58	43	32	29	25	21	23
29	39	37	32	32	---	55	43	32	28	25	21	24
30	38	38	32	32	---	51	46	32	28	25	22	24
31	38	---	33	32	---	49	---	30	---	25	21	---
TOTAL	1186	1126	1048	1016	912	1495	1410	1158	914	796	697	655
MEAN	38.3	37.5	33.8	32.8	32.6	48.2	47.0	37.4	30.5	25.7	22.5	21.8
MAX	42	41	37	33	34	80	55	47	34	29	25	24
MIN	37	35	30	31	31	33	43	30	28	24	20	20
AC-FT	2350	2230	2080	2020	1810	2970	2800	2300	1810	1580	1380	1300
CFSM	.21	.21	.19	.18	.18	.27	.26	.21	.17	.14	.13	.12
IN.	.25	.23	.22	.21	.19	.31	.29	.24	.19	.17	.14	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2001, BY WATER YEAR (WY)

MEAN	28.5	30.0	46.0	56.6	77.5	176	160	67.6	40.1	29.8	27.0	27.0
MAX	41.5	47.5	236	239	232	626	564	257	115	59.5	47.2	43.0
(WY)	1998	1974	1974	1997	1995	1997	1975	1975	1997	1997	1997	1997
MIN	18.9	19.1	17.1	17.4	21.2	29.9	22.6	19.6	19.4	18.2	18.4	18.1
(WY)	1993	1993	1993	1993	1994	1977	1992	1992	1994	1994	1994	1990

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1971 - 2001
ANNUAL TOTAL	32454	12413	63.9
ANNUAL MEAN	88.7	34.0	170 1997 25.8 1994
HIGHEST ANNUAL MEAN			
LOWEST ANNUAL MEAN			
HIGHEST DAILY MEAN	633	Mar 6	80 Mar 20 1997
LOWEST DAILY MEAN	30	Dec 12	20 Aug 21 1977
ANNUAL SEVEN-DAY MINIMUM	32	Dec 12	20 Sep 5 1993
ANNUAL RUNOFF (AC-FT)	64370	24620	46330 .36
ANNUAL RUNOFF (CFSM)	.50	.19	4.85
ANNUAL RUNOFF (INCHES)	6.74	2.58	
10 PERCENT EXCEEDS	244	46	128
50 PERCENT EXCEEDS	47	33	31
90 PERCENT EXCEEDS	35	22	20

e Estimated